25

30

CLAIMS

What we claim is:

1. In a telephony network, a method of generating a customer invoice for usage of network services and third-party services supportable by the network, comprising:

acquiring network charge information

10 representative of charges incurred by the customer for usage of the network services;

acquiring third-party charge information representative of charges incurred by the customer for usage of the third-party services;

identifying the third-party charge information so as to distinguish the third party charge information from the network charge information; and

integrating, within a single invoice, network and third-party charges reflective of the network and third-party charge information, respectively.

2. The method of claim 1, wherein: the network charge information is representative of charges incurred by the customer for usage of the network services and for equipment usage; and

the third-party charge information is representative of charges incurred by the customer for usage of the third-party services and for equipment usage.

- 3. The method of claim 1, wherein acquiring the third-party charge information comprises validating the third-party charge information.
- 4. The method of claim 1, wherein identifying the third-party charge information comprises identifying a code indicating a particular third-party service provider as a source of the third-party charge information.

15

5. The method of claim 1, wherein:

the third-party charge information comprises usage charge information representative of charges incurred by the customer for usage of the third-party services and equipment charge information representative of charges incurred by the customer for use of third-party equipment; and

identifying the third-party charge information comprises identifying a particular source code indicating a third-party service provider as a source of the usage charge information associated with the customer and identifying an equipment code indicating the particular third-party service provider as a source of the equipment.

25

30

6. The method of claim 1, wherein acquiring the third party charge information comprises:

receiving, by a third-party service provider, an order record transmitted from the telephony network;

inserting, by the third-party service provider, service parameters, equipment parameters, and a customer code into the order record; and

20

25

transmitting the order record from the thirdparty service provider to the telephony network.

- 7. The method of claim 1, wherein integrating the network and third-party charges comprises locating, in the single invoice, the network charges at a location of the invoice presenting network related billing information and the third-party charges at a location of the invoice presenting non-network related billing information.
 - 8. The method of claim 1, wherein:
 the charge information representative of
 charges incurred by the customer for usage of the
 network services comprises charges for usage of voice
 and data services; and

the charge information representative of charges incurred by the customer for usage of the third-party services comprises charges for usage of paging services.

- 9. The method of claim 1, wherein the charge information representative of charges incurred by the customer for usage of the third-party services comprises charges for usage of paging services associated with each of one or more paging units identified by a corresponding unique identification number.
- 10. The method of claim 1, further comprising
 30 computing a discount for at least one of usage of the third-part services or equipment usage, wherein

information concerning the discount is integrated within the single invoice.

11. A billing system for use in a telephony5 network, comprising:

a first subsystem that acquires usage charge information representative of charges incurred by the customer for usage of the network services and for usage of third-party services supportable by the network;

a second subsystem that acquires charge information representative of charges incurred by the customer for usage of network equipment and third-party equipment;

an extraction subsystem that extracts the

15 charge information from the first and second subsystems
and sorts the charge information associated with each
customer; and

an invoice processing subsystem that receives the sorted charge information from the extraction subsystem and integrates, within a single invoice, network and third-party usage and equipment charges associated with each customer, such that the network usage and equipment charges are grouped at a first common location on the invoice and the third-party usage and equipment charges are grouped at a second common location on the invoice.

- 12. The system of claim 11, wherein the first subsystem validates the third-party charge information.
- 13. The system of claim 11, wherein the invoice processing subsystem identifies a code embedded in the

30

20

25

third-party charge information indicating a particular third-party service provider as a source of the thirdparty charge information.

- 5 14. The system of claim 11, wherein the first subsystem detects a source code indicating a particular third-party service provider as a source of the usage charge information associated with a particular customer, and the second subsystem detects an equipment code indicating the particular third party as a source of the third-party equipment.
 - 15. The system of claim 11, wherein the second subsystem transmits an order record to a third-party service provider, and subsequently receives the order record, which includes service parameters, equipment parameters, and a customer code, from the third-party service provider.
- 20 16. The system of claim 11, wherein the invoice processing subsystem computes a discount associated with at least one of the third-party usage or equipment charges associated with each customer, and integrates information associated with the discount proximate to the third-party usage and equipment charges grouped at the second common location on the invoice.

15

17. A system for producing a customer invoice for usage of network services and third-party services supportable by a network, comprising:

means for acquiring network charge information representative of charges incurred by the customer for usage of the network services;

means for acquiring third-party charge information representative of charges incurred by the customer for usage of the third-party services;

means for identifying the third-party charge information so as to distinguish the third party charge information from the network charge information; and

means for integrating, within a single invoice, network and third-party charges reflective of the network and third-party charge information, respectively.

18. The system of claim 17, wherein:

the third-party charge information comprises

usage charge information representative of charges
incurred by the customer for usage of the third-party
services and equipment charge information representative
of charges incurred by the customer for use of thirdparty equipment; and

25 means for identifying the third-party charge information comprises means for identifying a particular source code indicating a third-party service provider as a source of the usage charge information associated with the customer and identifying an equipment code indicating the particular third-party service provider

as a source of the equipment.

19. The system of claim 17, wherein means for acquiring the third party charge information comprises:

means for receiving, by a third-party service provider, an order record transmitted from the telephony network;

means for inserting, by the third-party service provider, service parameters, equipment parameters, and a customer code into the order record; and

- means for transmitting the order record from the third-party service provider to the telephony network.
- 20. The system of claim 17, wherein means for integrating the network and third-party charges comprises means for locating, in the single invoice, the network charges at a location of the invoice presenting network related billing information and the third-party charges at a location of the invoice presenting nonnetwork related billing information.